



AD. 1874, 11<sup>th</sup> DECEMBER, N<sup>o</sup> 4173.

SPECIFICATION

OF

ALEXANDER STEWART.

ILLUMINATING APPARATUS FOR DENTAL  
AND SURGICAL OPERATIONS.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, NORTHGATE BUILDINGS, HOLBORN.

1875.





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A.D. 1874, 4th DECEMBER. N° 4173.  
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**Illuminating Apparatus for Dental and Surgical  
Operations.**

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*(This Invention received Provisional Protection only.)*

PROVISIONAL SPECIFICATION left by Alexander Stewart at the Office of the Commissioners of Patents, with his Petition, on the 4th December 1874.

I, ALEXANDER STEWART, of Cheapside, in the City of London,  
5 Licentiate and Fellow of the Royal College of Surgeons, Edinburgh, do hereby declare the nature of the said Invention for "IMPROVED ILLUMINATING APPARATUS FOR USE IN DENTAL AND SURGICAL OPERATIONS," to be as follows:—

My Invention relates to a cheap, portable, and convenient apparatus  
10 for dentist's and surgeon's use, whereby operations which have hitherto been only practical in clear daylight may be performed at all times with perfect ease and safety.

The apparatus consists of a pedestal and standard on which is mounted, as hereafter described, a reflector with a gas jet in front  
15 thereof, or a bracket terminating in a socket for a lamp. The reflector is fitted to move on a vertical axis so as to be readily turned to the right or left in order to direct the rays of light where required, and it is adjusted as



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*Stewart's Illuminating Apparatus for Dental and Surgical Operations.*

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to height by means of a socket upon which both the reflector and gas burner or lamp bracket are carried so as to be moved together, said socket sliding up and down the standard and secured in any desired position by means of a set screw or otherwise.

The reflector I employ is preferably constructed of prepared glass, but 5 I do not confine myself to this particular kind of reflector. I also prefer that the flame of the gas or lamp should not be opposite the centre of the reflector, but rather below it; and that the reflector should be inclined slightly forward at the upper part to throw the light somewhat downwards.

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